

Radiation of antenna ...

P/019/62/011/004/001/010
D271/D308

ients are used in the polynomial representation of field distribution in the aperture. The danger of solutions leading to ultra-gain is stressed. There are 6 figures.

ASSOCIATION: Zakład Teorii Łączności IPPT PAN (Department of Tele-
communication Theory, IPPT PAS)

SUBMITTED: May 21, 1962

Card 3/3

P/019/62/011/004/002/010
D271/D308

AUTHOR: Szulkin, P.

TITLE: Amplitude stability criteria in systems with two degrees of freedom

PERIODICAL: Archiwum Elektrotechniki, v. 11, no. 4, 1962, 721-739

TEXT: Amplitude stability criteria of two simultaneous oscillations are derived from energy considerations and applied to nonlinear systems described by fourth- or fifth-order characteristics. Current superposition is used assuming quasi-linearity of the system. Impedances of two constituent oscillating circuits are regrouped in such a manner that at each frequency energy is concentrated in one circuit only. Dissipated power as a function of oscillation amplitudes (A, B) is represented by a surface in A, B, P space. When power supplied by a nonlinear source is represented by another surface in the same space, the intersection lines of both surfaces correspond to possible oscillation amplitudes in balanced state.
The nonlinear element of the considered system with two degrees of

Card 1/4

Amplitude stability criteria ...

P/019/62/011/004/002/010
D271/D308

freedom is described by a fourth-order polynomial $v = f(i)$, with coefficients $\alpha, \beta, \gamma, \eta$ and an expression is derived for the power P which corresponds to the simultaneous existence of both oscillations:

$$P = P_1 + P_2 - \frac{3}{8} \gamma A^2 B^2 \quad (17)$$

where P_1 and P_2 are powers associated with one frequency in the absence of the other. Even when it is assumed to be valid for currents, the superposition principle cannot be applied to energy. The stability condition of the oscillation amplitude B is $-R_2 > \alpha$, where R_2 is the resistive component of the linear circuit connected to the nonlinear element at the oscillation frequency B . Similarly, the stability criterion for A is $-R_1 > \alpha$. These conditions are valid when only one oscillation occurs at a time. For stable amplitudes of simultaneous oscillations the expressions are:

Card 2/4

Amplitude stability criteria ...

P/019/62/011/004/002/010
D271/D308

$$A_s^2 = \frac{1}{3} (2B_m^2 - A_m^2) \quad (27)$$

$$B_s^2 = \frac{1}{3} (2A_m^2 - B_m^2) \quad (28)$$

where the indices m refer to singly occurring oscillations. The comparison of powers supplied by the nonlinear and dissipated element produces an equation of pairs (A, B) which are amplitudes in balanced states. If there is no energy exchange between the two oscillations, the only possible solution is that with stable amplitudes. When energy exchange occurs, two-frequency operation is possible but there is no question then of stationary conditions. Stability conditions are finally expressed in the form of inequalities involving the dependence of frequency on the amplitude of oscillations, values of stable amplitudes, loss resistance and

Card 3/4

Amplitude stability criteria ...

P/019/62/011/004/002/010
D271/D308

and logarithmic decrements of the linear circuit at frequencies considered. The case of the fifth-order characteristic of the non-linear element is also analyzed. There are 3 figures.

ASSOCIATION: Zakład Teorii Łączności IPPT PAN (Department of Telecommunication Theory, IPPT, PAS)

SUBMITTED: July 23, 1962

Card 4/4

OSIOWSKI, Jerzy; SZULKIN, Paweł

Certain problems of dynamics of relays of optimalizing control systems. Archiw automat 8 no.1:3-26 '63.

1. Instytut Podstawowych Problemów Techniki, Polska Akademia Nauk,
Zakład Teorii Laczności, Warszawa.

9.2580

P/052/62/000/002/001/002
D271/D303

AUTHOR: Szulkin, Paweł

TITLE: Some conclusions from the theory of synchronization
by a continuous wave of constant frequency

SOURCE: Prace Instytutu Łączności, no. 2, 1962, 3-18

TEXT: The time constant of the synchronizing process, its dependence on the locking band width and the influence of the synchronizing signal on the locked oscillations are analyzed. The locking signal is assumed to be applied in series to the grid of the oscillator tube. The amplitude of oscillations is determined as the point of intersection of the non-linear characteristic of the tube $V_a = f(V_g)$ and the line $V_a = f(V_1 \cos \varphi)$ which represents the transfer function of a linear quadripole where V_1 is the geometric difference of V_g and V_s and φ is the angle between V_1 and V_g . The condition of locking is that V_1, V_s, V_g form a closed triangle; this is an extension of the Barkhausen criterion for a tube oscillator. In

Card 1/4

P/052/62/000/002/001/002

D271/D308

Some conclusions from the theory ...

in the case of a single tubed circuit the width of locking band is $\frac{\omega_0}{Q} \frac{V_s}{V_g}$. A more general picture of synchronization is obtained by the use of modified Adler's method (PIRE, v. 34, 1946, 351) assuming $V_s \ll V_g$ and Ψ to be small and linearly varying with frequency. Introducing Ψ , such that $\Psi = \frac{V_s}{V_g} \sin \Psi$, an equation is derived

$$\frac{d\Psi}{dt} = \Omega_s - \Omega_0 \sin \Psi. \quad (9)$$

where Ω_s is the difference between synchronizing and free oscillation frequency and Ω_0 - half-width of the synchronizing band. In the case of locking, $\frac{d\Psi}{dt} = 0$ and

$$\sin \Psi = \frac{\Omega_s}{\Omega_0} \quad (10)$$

Equation (10) is discussed for $\Omega_s < \Omega_0$ and $\Omega_s > \Omega_0$. In the

Card 2/4

P/052/62/000/002/001/002
D271/D308

Some conclusions from the theory ...

first case, a time constant is introduced which is a measure of decay of the transitional state caused by the sudden application of the synchronizing signal; its dependence on Ω_0 and Ω_s/Ω_0 is plotted. In the second case, where the synchronizing frequency is outside, but fairly close to, the synchronizing band, the oscillator is frequency modulated and its center frequency moves towards the synchronizing frequency. Another method of injecting the locking signal is considered in which synchronizing current flows into the oscillator circuit represented as a parallel connection of L, R, C and a negative resistance. Equation (9) is also proved to be valid for this case. Amplitude modulation of locked oscillations depends on the amplitude and frequency of the locking signal, and expressions are derived for this dependence, as well as for the frequency dependence of the oscillator transfer function. The locking band width depends on the amplitude of the signal as do the oscillator time constant and its reaction to changes in the synchronizing frequency. An equation is given which characterizes the oscillator frequency as a function of amplitude variations. There are 10 figures.

Card 3/4

Some conclusions from the theory ...

P/052/62/000/002/001/002
D271/D308

SUBMITTED: June 24, 1961

Card 4/4

S/194/62/000/012/101/101
D271/D308

AUTHOR: Szulkin, Paweł

TITLE: Variational methods for calculating discontinuities
in coaxial cables

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 12, 1962, 26, abstract 12-8-51 r (Rozpr. elektrotehn., v. 7, no. 3, 1961, 365-379 (Pol.; summaries
in Rus. and Eng.))

TEXT: A variational method is used in the investigation of discontinuous (plane) inhomogeneities in coaxial cables. An integral equation for the admittance is derived by solving Maxwell's equations. It is shown that, in the case of TEM waves, it is possible to represent accurately a lumped discontinuity by a lumped capacitance. As an example, the discontinuities are considered in a coaxial cable which are due to an abrupt change of the diameter of the inner conductor and of the shield. 4 references. ✓
[Abstracter's note: Complete translation.]

Card 1/1

~~Szulc A., Jankowski, AT.~~

Racjonalizator w górnictwie (The rationalizer in the mining industry),
by K. Szulc, Fr. Jankowski. Reported in New Books, (Nowe Ksiazki), No. 4,
March 1, 1956.

SZULYOVSKY, A.

① Bel Chem

B. T. R.
Vol. 3 No. 4
Apr. 1954
Metals-Extraction and Refining

5212* Practical Aspects of the Thermodynamics of Magnesium Oxide Reduction. (Hungarian.) Andor Szulyovszky. Aluminium (Budapest), v. 5, no. 9, Sept. 1953, p. 185-196. Thermodynamic data of Mg-reduction as basis for work necessary in starting a Hungarian Mg industry. Tables, graphs. 14 ref.

SZULYOVSKY 4

the problem of determining the solid composition¹⁰

of the mineral phases in contact with silicon in thermodynamic equilibrium with the melt is also very difficult.

of the zinc vapor above the melt. Determination of the vapor pressure of zinc is also difficult because of the precipitation products which are released to the surface. Determination of the vapor pressure of zinc in the presence of silicates forming in the various phases meets with difficulties.
vapor pressure estimated by direct measurement seems to

SZUJY vs ZKYSZK/N DOR

✓ 699* New Data on Ore Preparation in Silicon-Thermal Magnesium Metallurgy. Újabb adatok a szilikotermikus magnéziumkohászat előkészítéséhez. (Hungarian.) Andor Szulyo-
vszky and Károly Czukó. Kohászati lapok, v. 10, no. 9, Sept. 1955, p. 413-419.

Crushing and calcining of dolomite; equipment; briquetting.
Tables, graphs. 12 ref.

(1)

D. J. M.

SZULYOVSKY, Andor.

21
✓ Ore dressing for the silicon-thermal magnesium reduction. Andor Szulyovszky and Károly A. Czakó. Fémipari Kutató Intézet Kosztolányi 1956, 319-40. — For calcining, the grain sizes may vary from 10 to 70 mm, without affecting the calcining time. The optimum temp. for reducing the CO₂ content of the material to the desired 0.5% is reached in stages from 650 to 1200°. For briquet formation, the dolomite must be ground to a grain size of 0.06-1.0 mm. and pressed with a specific pressure of 800-1000 kg./sq. cm., after which the apparent d. of the briquets is 1.7-1.8 g./cc. The pressure needed for wet briquetting is only $\frac{1}{r^{1/4}}$ of that required for dry pressing. At a drying temp. of 150° the oxidation of the 76% FeSi is negligible in both the wet and the dry briquets, while somewhat larger in the wet briquets. The drying temp. should not exceed 750-800°.
Felicitas D. Goodwin

Distr: 4E2c

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✓ An experimental rotary furnace for magnesium reduction.
Andor Szulyovszky and Károly A. Szakó. Rémparipai
Kutató Intézet Személyei 1956, 347-61. An exptl. pilot-
plant process was carried out in a rotary furnace heated
with C electrodes. The briquets were preheated to 600° and
placed in the reduction section, which had a temp. of 1100-
1200°. A 15-25-min. evacuation produced the necessary
0.5-2.5 mm. Hg. The Mg gases were conducted into a con-
denser at a temp. of 450-500°; the reduction of 1 load took
3.5-4 hrs. The purity of the metal produced was 98.6-
99.8%. After several hrs. of operation, the C electrode was
graphitized, and its sp. resistance had decreased from 24 to 17
ohm/sq. mm-m.

Felicitas D. Goodison

Distr: 4E2c

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SZULYOVSKY, A.

Vysschij Tekhnicheskij Metallurgij. A. Szuljovskij
Kharkov, 1960. II, (10) 156-164. The author refers
briefly to the influence of vacuum on metallurgical processes.

Afterwards, the author describes the influence of various heating systems and the construction of vacuum furnaces. It may be resistance, induction and so on. Vacuum furnaces under vacuum describes the following metallurgical processes under vacuum:
(1) heating, (2) degassing, (3) sintering, (4) melting, (5)
distillation and sublimation, (6) reduction of metal oxides
and (7) metal coating. P. K.

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SEULYOVSKY, A.

Possibilities of the development of the thermometallurgy of magnesium. p. 66.
(KOHASEATT LAPOK. Vol. 12, no. 1/2, Jan/Feb. 1957, Budapest, Hungary)

SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

3/081/62/000/003/044/090
B156/B101

AUTHORS: Szulyovszky, Andor, Legát, Tibor

TITLE: High-purity selenium produced by vacuum distillation

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 356,
abstract 5K54 (Fémipari kutató int. körz., v. 4, 1960,
363-370, 404, 416, 417, 427)

TEXT: The ideal conditions for the process have been found (400 °C,
0.5 mm Hg), and industrial equipment has been produced. Abstracter's note:
Complete translation.

✓

Card 1/1

SZULYOVSZKY, Andor, tudomanyos kutato; BAUMANN, Sandor, tervezto

Silicothermal magnesium refining furnaces and their operation.
Kch lap 97 no. 2;88-93 F '64.

1. Research Institute of the Metal Industry, Budapest (for Szulyovszky). 2. Aluminum Industry Designing Enterprise, Budapest (for Baumann).

ORG: none

TITLE: Development of an oil diffusion pump with a delivery rate of 125 l/sec

~~APPROVED FOR RELEASE: 07/13/2001~~ [Awarded 1st prize at the 1966 Design Competition, sponsored by Finommechanika]

SOURCE: Finommechanika, no. 1, 1967, 7-10

TOPIC TAGS: diffusion pump, pump, oil backflow

ABSTRACT: The paper described the first of a series of diffusion pumps developed jointly by the Central Research Institute for Physics and the United Incandescent Company and assembled by Elekthermax. The design and dimensional data are given and measurement values concerning ultimate pressure and suction speed of the prototype are presented. A method is also suggested for computing the quantity of oil back-flow. Orig. art. has: 7 figures. [Authors' abstract]

[KS]

SUB CODE: 13/SUBM DATE: none/SOV REF: 001/OTH REF: 008/

SZUMAKOWICZ, J.

Properties of refractories from fire clay burned at a low temperature.

P. 29 (BUDOWNICTWO PRZEMYSLOWE) Poland, Vol. 6, No. 1, 1956

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11, November 1957

SZUMAN, JERZY.

Szuman, Jerzy. - Badania nad przejawami rui i ciazy u krolic. Studies on the symptoms of heat and pregancy in rabbits. Krakow, Nakl. Polskiej Akademii Umiejetnosci, 1952. 59 p. (Prace rolniczo-lesne, nr. 65) [English and Russian summaries. illus., bibl., tables]

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

SZUMAN, Jerzy
SURNAME, Given Names

Country: Poland

Academic Degrees: Prof. Dr.

Affiliation: not given

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 7, July 1961,
pp 435-437.

Data: "Possibilities of Arranging the Copulation Season of the Polar Foxes
without Trial Mating of the Pairs."

SZUMAN, Jerzy; GORSKI, Lech; LUBAWA, Urszula

Influence of the season upon the growth rate of goose feathers.
Roczniki Wyz Szkola Rol Poznan no.12:79-95 '62.

1. Zaklad Hodowli Drobui i Zwierzat Futerkowych, Wyższa Szkoła
Rolnicza, i Przemysłowe Laboratorium Badawcze Przemysłu Jajczarsko-
Drobiarskiego, Poznan.

SZUMAN, Jerzy; SOKOLOWSKI, Waclaw

Bibliography of works of the scientific staff of the Department of Zootechny of the School of Agriculture in Poznan for the years 1958-1961. Roczniki Wyz Szkola Rol Poznan no.12:257-275 '62.

1. Wyższa Szkoła Rolnicza, Poznań.

DORUCHOWSKI, Wojciech; SZUMAN, Jerzy

Development of the plumery in growing ducks and its dependence on
their growing rate and way of being fed. Rozniki wyz szkola rol
Poznan 17:3-19 '63.

1. Department of Specific Animal Breeding, College of Agriculture
and Central Laboratory of the Egg and Poultry Industry.

SKUMAN, Jerzy; DORUCHOWSKI, Wojciech; LUBAWA, Urszula

Evaluation of mashes produced by the Polish fodder industry for feeding broilers. Roczniki wyz szkola rol Poznan 17:209-224 '63.

1. Department of Specific Animal Breeding, College of Agriculture, Poznan, and Central Laboratory of the Egg and Poultry Industry, Poznan.

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Szuman W. Central Electric and Heat Supply Systems.
"Zespolona gospodarka cieplno-elektryczna". Przeglad Elektrotechniczny. No. 7-8, 1951, pp. 215-228, 22 figs., 2 tabs.

Combined generation of heat and electric energy in power plants. Centralisation of output. Conditions for and advantages of combined generation of heat electric power. Operating conditions and design of urban heating plant. Heating system, selection of the active medium and its physical features. Pipe line systems and details of arrangement. Working principles of heat pumps.

SZUMAN, W.

Urządzenia pomocnicze elektrowni cieplnych (Auxiliary installations of thermal power plants), by W. Szuman. Reported in New Books, (Nowe Ksiazki), No. 6, March 15, 1956.

MOSCOW, Russia

Research work of the Warsaw Branch of the Polish Psychological Society. Przegaz psychol no. 7, 1965-1966 '64.

To Warsaw Branch of the Polish Psychological Society, Warsaw.

KORANYI, Gyorgy, dr.; WUNSCH, Walter, Dr. ing.; OECHELHAUSER, Kurt;
PUTNOKY, Janos; SOMHEGYI, Karoly; SZUMAN, Witold; VALY, Ferenc, dr.;
DOBO, Laszlo; NAGY BIRO, Sandor; VIDA, Miklos; TOBAK, Lajos;
MAKOLDI, Mihaly; NASZALYI, Laszlo; HUNEK, Emil

Technical and economic questions relating to gas utilization.
Ipari energia 3 no.1/2:9-14 Ja-F '62.

1. Fovarosi Gazmuvek muzsaki igazgatoja (for Valy).

SZUMAN, Witold, doc. mgr inz.

Power problems in industrial enterprises. Gosp paliw 11 no.1:
8-11 Je '63.

1. Katedra Elektrowni i Elektroenergetyki, Politechnika,
Warszawa.

SZUMAN, Witold, doc.

The Turbogenerator Conference in Breslau, October 19-22, 1964.
Przegl elektrotechn 41 no.4:151-152 Ap '65.

1. Scientific Secretary of the Committee for Electrical
Engineering of the Polish Academy of Sciences, Warsaw.

SZUMANKOWICZ, Józef

An attempt to determin the most suitable porosity of grog obtained by baking fireproof clays. Ceraminka 32 no.4:39-46 '61.

1. Katedra Technologii Materiałów Ogniotrwałych Akademii Górnictwa i Hutniczej, Krakow.

SZUMANSKA, Witeslawa

The three International Speleological Congress in Vienna, Obertraun,
Salzburg (Austria). Przegl geol 10 no. 4/5:240-241. Ap-Mu '62

1. Politechnika, Warszawa.

SZUMANSKI, E.; WRZESNIEWSKI, Z.

Semitechnical researches. p. 24.

BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolictwa i Ministerstwo Państwowych Godpodarstw Polynch.) Warszawa, Poland. Vol. 2, no. 3, March 1959

Monthly list of East European Accessions (EEAI) LC Vol. 8, no. 8, Aug. 1959
Uncl.

POLAND/Chemical Technology. Chemical Products and Their
Application, Part 4. - Dyeing and Chemical
Treatment of Textile Materials.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72789.

Author : J. Szumarczak

Inst : "Inst. włókiennictwa"

Title : Determination of Fire Resistivity of Textile Products.

Orig Pub: Przem. włókienniczy, 1957, 11, No 11, Biul. inst.
włókiennictwa, 9, No 11, 22.

Abstract: It is recommended to use two methods of testing:
1/ a strip of fabric 25 x 5 cm large is suspended ver-
tically in a cupboard in order to protect it from
draft and kindled 12 sec. at a distance of 2 cm
above the opening of a Bunsen burner by a luminous
flame 2 cm high. The fire resistivity is determined

Card : 1/2

164

SZUMEN, W

(PRZEGLAD ELEKTROTECHNICZNY, Vol. 27, No. 7/8, Warszawa, Poland, Aug. 1951
"Power and heat supply in Czechoslovakia." p. 252.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

SZUMIEC, Jan, mr inż.

Influence of above water vegetation and the method of mowing it
on the bottom fauna of fishponds. Acta hydrobiol. 5 no.4:315-
335 '63.

I. Zespol Gospodarstw Doswiadczałnych Ochaby, Zakład Biologii
Wod. Polska Akademia Nauk, Ochaby pow. Cieszyn.

SZUMIEC, Maria

Preliminary measurements of the radiation intensity in lakes. Acta
hydrobiol. 3 no.2/3:133-142. '61.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Gospodarstwo Doswiadczenne
Ochaby, poczta Skoczow.

SZUMIEC, Maria

Time-space temperature distribution in the lowest air layers over
water and soil. Przegl gabfiz 7 no.3:157-167 '62.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Ochaby.

SZUMIEC, Maria, eng.

The hydrodynamic characteristics of very shallow ponds. Acta Hydrobiologica Polonica 21(1)

1. Związek Gospodarki Rolniczych Lublin, Zakład Biologii Wód, Polska Akademia Nauk, Lublin, powiat Lubaczów.

SZUMIEJKO, Henryk, dr., inz.

Direct current amplifier. Przegl elektrotechn 37 no.12:514 '61.

(Amplifiers)

SZUMIEJKO, Henryk, dr., inz.

Universal transistor amplifier. Przel elektrotechn 37 no.12:
514 '61.

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P/021/62/000/010/001/001
D289/D308

AUTHORS:

Szumiejko, Henryk, Doctor of Engineering,
Michałowski, Wiesław, Master of Engineering

TITLE:

Amplifier stage using electronic tube and a
transistor for control amplifiers

PERIODICAL:

Przegląd elektrotechniczny, no. 10, 1962,
417 - 418

TEXT: The circuit described is intended for applications where one high voltage supply is available. An electronic tube operating in grounded grid configuration contains a transistor as its cathode resistance. Suitable choice of tube and transistor depends on the amplifier output parameters. The choice of transistor is limited by the conditions $I_{k\max} \leq E_{\text{adm}}$ and $V_k \leq -V_{K\text{Eadm}}$, where I_k , V_k -- cathode current and voltage respectively, I_{Eadm} -- admissible emitter current; $V_{K\text{Eadm}}$ -- admissible

Card 1/2

Amplifier stage using ...

P/021/62/000/010/001/001
D289/D308

4

collector-to-emitter voltage. If the above voltage relation is not satisfied a resistance in emitter or collector circuit may be used. An example is given using a tube type EF80 and transistor type TG5 where, with anode load of $100 \text{ k}\Omega$ and $V_a = 300 \text{ V}$, maximum cathode current is $3 \text{ mA} \leq I_{KE}$. It is concluded that any low power surface barrier transistor of Polish manufacture may be used with the EF80 tube and transistors TG50-52 are suitable for EL series tubes, e.g. EL83. The choice of operating point for the tube is determined by the choice of anode resistance or load and linearity, that of the transistor by base-emitter bias for a given emitter current. The choice of transistor maximum voltage is determined by the emitter and base resistances and their relation to the impedance of input signal source. D.C. and A.C. (frequency and phase) characteristics are tabulated. There are 2 figures and 4 tables.

ASSOCIATION: Instytut Elektrotechniki, Zakład Zautomatyzowanych Napędów (Institute of Electrical Technology, Department of Automated Drives)

Card 2/2

SZUMIEJKO, Henryk, dr. inz.

An electronic multiplying system. Przegl elektrotechn
38 no.5:220. '62.

1. Zaklad Zautomatyzowanych Napedow, Instytut Elektrotechniki,
Warszawa.

SZUMIEJKO, Henryk, dr inz.

Electronic relay circuit for the change of operation amplifier parameters.
Przegl elektrotech 38 no.11:487-488 '62.

1. Zaklad Zautomatyzowanych Napedow, Instytut Elektrotechniki, Warszawa.

SZUMIEJKO, Henryk

Elements of analog calculating machines applied in the modeling of
electric rolling proceedings. Probleme automatiz 4:219-227 '63.

CHMIELEWSKA, I.; TOCZKO, K.; KANIUGA, Z.; SZUMIEL, I.

Utilization by the human organism of intravenously administered protein hydrolysates. IV. Urinary excretion of amino acids with blocked amino groups. Acta physiol pol 12 no.4:549-558 '61.

1. Z Katedry Biochemii Uniwersytetu Warszawskiego w Warszawie
Kierownik: prof. dr I. Chmielewska.
(PROTEIN HYDROLYSATES metab) (AMINO ACIDS urine)

SZUMIEL, Irena

The stereospecificity of enzymes. Postepy biochem. 8 no.1:29-52 '62.

(ENZYMES)

SZUMIEL, Irena

The heterogeneity of enzymes. Postepy biochem. 9 no.2:153-172
'63.

(ENZYMES)

SZUMIEL, Irena

Conformation of steroids. Postepy biochem. 6 no.3:341-355 '60.
(STEROIDS chem)

SZUMIEL, Irena

The mechanism of enzyme action. Postepy biochem. 11 no.2:119-144
'65.

SZUMIGAJ, Franciszek

History of the psychiatric hospital in Swiecie on Vistula.
Neur. &c. polska 6 no.1:126-128 Jan-Feb 56.

1. Z Państwowego Szpitala dla Nerwowo i Psychicznie Chorych
w Świeciu n/Wisła. Dyrektor: dr. med. Fr. Szumigaj.
(HOSPITALS, PSYCHIATRIC, history,
in Poland. (Pol))

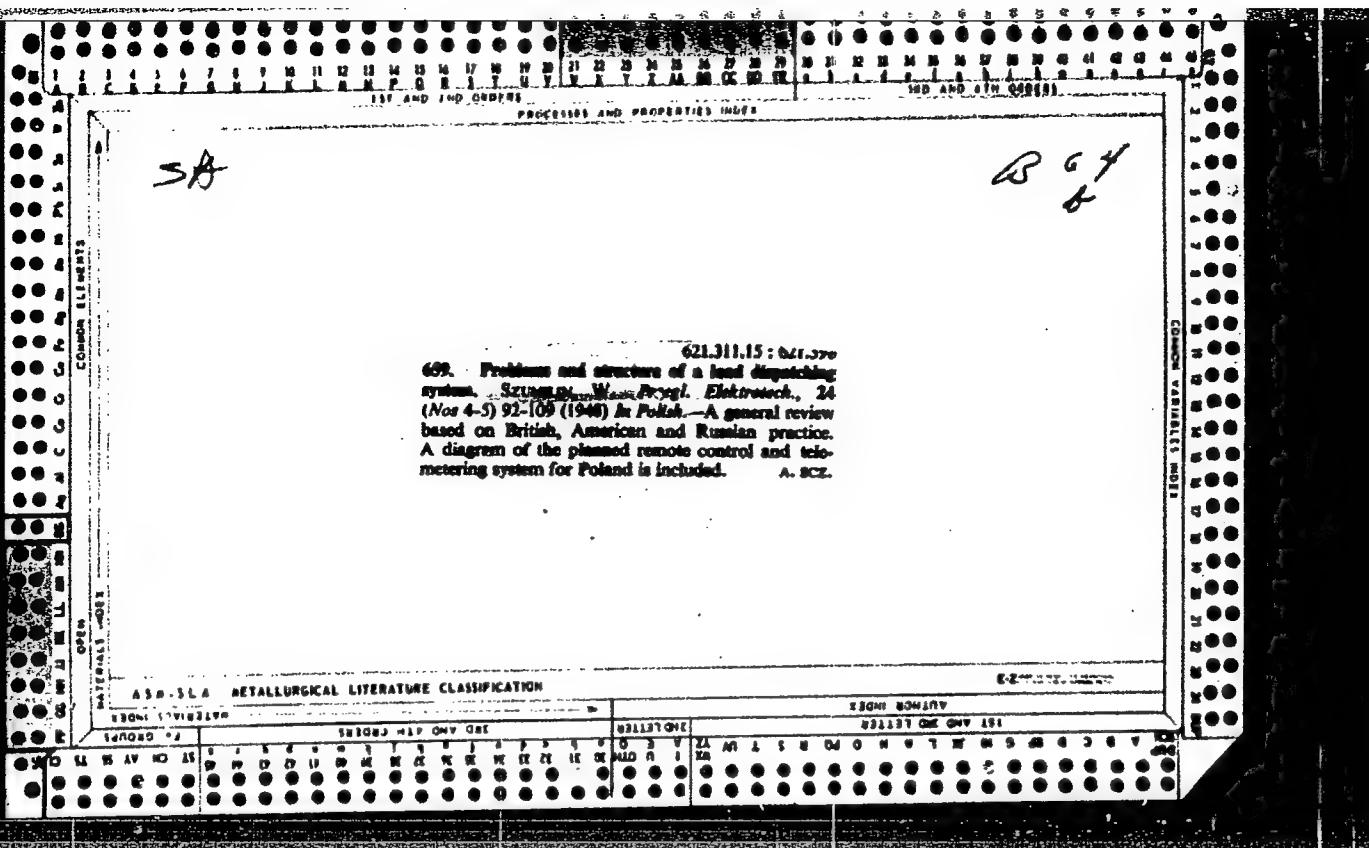
SZUMILEWICZ, Irena, dr.

A symposium of philosophers in Denver, Colorado. Problemy 18
no.6:439-441 '62.

SZUMILAS, Stanislaw

Chemistry conquers foreign markets. Przegl techn 85 no.23:4
7 Je '64

1. Ministry of Chemical Industry, Warsaw.



SZUMILIN, W.

SZUMILIN, W. The development of alternating -current transmission systems of the highest voltage. P. 207.

Vol. 32, no. 5, May 1956
PRZEGLAD ELEKTROTECHNICZY
TECHNOLOGY
Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

SZUMILIN, W.; KLARNER, T.; STRASZEWSKI, K.

11th Congress of the International Union of Producers and Distributors of electric Power, Lausanne 1958. Pt. 2 (to be cont.). p. 118

ENERGETYKA (Ministerstwo Gornictwa i Energetyki oraz Stowarzyszenie Elektrykow Polskich) Bytom, Poland. Vol. 13, no. 4, Apr 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 6, no. 9, September 1959.
Uncl.

SZUMILIN, W.; KLAENER, T.; STRASZDWSKI, K.

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